

L Number	Hits	Search Text	DB	Time stamp
1	81415	lid	USPAT	2003/11/20 15:41
2	10192	FCC	USPAT	2003/11/20 15:41
3	140984	reactor	USPAT	2003/11/20 15:41
4	517	FCC adj reactor	USPAT	2003/11/20 15:41
5	0	lid with (FCC adj reactor)	USPAT	2003/11/20 15:41
6	0	(FCC adj reactor) and lid	USPAT	2003/11/20 15:42
7	76757	cracking	USPAT	2003/11/20 15:42
8	239	lid same cracking	USPAT	2003/11/20 15:42
9	15	reactor and (lid same cracking)	USPAT	2003/11/20 15:45
10	1	("5908804").PN.	USPAT	2003/11/20 16:50
11	49634	regenerator regeneration	USPAT	2003/11/20 15:45
12	29	lid with (regenerator regeneration)	USPAT	2003/11/20 15:45
13	233456	catalyst	USPAT	2003/11/20 15:45
14	0	(lid with (regenerator regeneration)) same catalyst	USPAT	2003/11/20 15:45
15	1	(lid with (regenerator regeneration)) and catalyst	USPAT	2003/11/20 15:46
16	120241	door	USPAT	2003/11/20 15:46
17	21	(regenerator regeneration) with door	USPAT	2003/11/20 15:46
18	4	((regenerator regeneration) with door) and catalyst	USPAT	2003/11/20 15:46
19	42271	fluidized fluidize fluidise fluidised fluidization	USPAT	2003/11/20 15:47
20	43	door with (fluidized fluidize fluidise fluidised fluidization)	USPAT	2003/11/20 15:47
21	2	catalyst and (door with (fluidized fluidize fluidise fluidised fluidization))	USPAT	2003/11/20 15:47
22	201870	hydrocarbon	USPAT	2003/11/20 15:48
23	3	(door with (fluidized fluidize fluidise fluidised fluidization)) and hydrocarbon	USPAT	2003/11/20 15:48
24	469117	distributor distribution	USPAT	2003/11/20 15:48
25	23	(door with (fluidized fluidize fluidise fluidised fluidization)) and (distributor distribution)	USPAT	2003/11/20 15:50
26	3	("5294094"   "5332139"   "5423370").PN.	USPAT	2003/11/20 15:49
27	1	("4752061").PN.	USPAT	2003/11/20 15:52
28	730727	distribution distributor injection injector	USPAT	2003/11/20 15:53
29	438093	nozzle nozzles tuyere tuyeres pipe pipes	USPAT	2003/11/20 15:53
30	679363	downward downwards downwardly	USPAT	2003/11/20 15:53
31	1961	(distribution distributor injection injector) with (nozzle nozzles tuyere tuyeres pipe pipes ) with (downward downwards downwardly)	USPAT	2003/11/20 15:54

32	1836097	advantage advantages benefit benefits	USPAT	2003/11/20 15:54
33	31	((distribution distributor injection injector) with (nozzle nozzles tuyere tuyeres pipe pipes ) with (downward downwards downwardly)) same (advantage advantages benefit benefits )	USPAT	2003/11/20 15:56
34	140984	reactor	USPAT	2003/11/20 16:02
35	1412898	door lid cover opening	USPAT	2003/11/20 16:03
36	604157	service servicing clean cleaning serviced cleaned	USPAT	2003/11/20 16:03
37	174	reactor with (door lid cover opening) with (service servicing clean cleaning serviced cleaned)	USPAT	2003/11/20 15:57
38	19	cracking and (reactor with (door lid cover opening) with (service servicing clean cleaning serviced cleaned))	USPAT	2003/11/20 15:57
39	1	(fluidized fluidize fluidise fluidised fluidization) and (cracking and (reactor with (door lid cover opening) with (service servicing clean cleaning serviced cleaned)))	USPAT	2003/11/20 15:58
40	17	(fluidized fluidize fluidise fluidised fluidization) and (reactor with (door lid cover opening) with (service servicing clean cleaning serviced cleaned))	USPAT	2003/11/20 15:59
41	55183	reactor	USOCR	2003/11/20 16:03
42	654775	door lid cover	USOCR	2003/11/20 16:03
43	330235	service servicing clean cleaning serviced cleaned	USOCR	2003/11/20 16:03
44	13	reactor with (door lid cover ) with (service servicing clean cleaning serviced cleaned)	USOCR	2003/11/20 16:03
45	89907	sand	USPAT	2003/11/20 16:51
46	60973	cores foundry	USPAT	2003/11/20 16:51
47	1844	sand near2 (cores foundry)	USPAT	2003/11/20 16:51
48	37875	fluidized	USPAT	2003/11/20 16:51
49	171	(sand near2 (cores foundry)) and fluidized	USPAT	2003/11/20 16:51
50	391129	particles	USPAT	2003/11/20 16:51
51	185789	solids	USPAT	2003/11/20 16:51
52	1144363	metal metals	USPAT	2003/11/20 16:51
53	61541	(particles solids) with (metal metals)	USPAT	2003/11/20 16:52
54	27	((sand near2 (cores foundry)) and fluidized) and ((particles solids) with (metal metals))	USPAT	2003/11/20 17:01
55	155941	bed	USPAT	2003/11/20 16:55
56	1907	(metal metals) near2 bed	USPAT	2003/11/20 16:55
57	6	((sand near2 (cores foundry)) and fluidized) and ((metal metals) near2 bed)	USPAT	2003/11/20 16:55
58	1	("6253830").PN.	USPAT	2003/11/20 17:01
-	1	("0443551").PN.	USPAT	2003/11/20 15:41

-	1	("4443551").PN.	USPAT	2002/10/02 18:31
-	8150	regenerator	USPAT	2002/10/02 18:31
-	37978	distributor	USPAT	2003/06/04 15:04
-	158567	combustion	USPAT	2002/10/02 18:31
-	572	regenerator and distributor and combustion	USPAT	2002/10/02 18:31
-	167100	fuel	USPAT	2002/10/02 18:31
-	302	(regenerator and distributor and combustion) and fuel	USPAT	2002/10/02 18:31
-	860128	air	USPAT	2002/10/02 18:32
-	33195	combustion with fuel with air	USPAT	2002/10/02 18:32
-	66	regenerator and distributor and (combustion with fuel with air)	USPAT	2002/10/02 18:32
-	733065	heat	USPAT	2002/10/02 18:32
-	253767	exchanger exchange	USPAT	2002/10/02 18:32
-	83129	heat adj (exchanger exchange)	USPAT	2002/10/02 18:32
-	49	(regenerator and distributor and (combustion with fuel with air)) and "17"	USPAT	2002/10/02 18:35
-	48	(regenerator and distributor and (combustion with fuel with air)) and (heat adj (exchanger exchange))	USPAT	2002/10/02 18:35
-	4	((("5423370") or ("4512821") or ("4524957") or ("4547228"))).PN.	USPAT	2003/06/04 15:10
-	1	("4223243").PN.	USPAT	2003/06/04 14:54
-	1	("2798030").PN.	USPAT	2003/06/04 14:54
-	87932	sand	USPAT	2003/06/04 14:58
-	3	((("5423370") or ("4512821") or ("4524957") or ("4547228"))).PN.) and sand	USPAT	2003/06/04 15:00
-	1	("4443551").PN.	USPAT	2003/06/04 15:03
-	24	4443551.URPN.	USPAT	2003/06/04 15:00
-	10	("2608474"   "3466021"   "3647714"   "3680349"   "3890111"   "3927479"   "3974091"   "4051069"   "4223843"   "4322384").PN.	USPAT	2003/06/04 15:03
-	5	sand and {4443551.URPN. {("2608474"   "3466021"   "3647714"   "3680349"   "3890111"   "3927479"   "3974091"   "4051069"   "4223843"   "4322384").PN.}}	USPAT	2003/06/04 15:04
-	1076311	metal	USPAT	2003/06/04 15:04
-	110484	casting castings	USPAT	2003/06/04 15:04
-	1273	sand with metal with (casting castings)	USPAT	2003/06/04 15:07
-	39288	distributor	USPAT	2003/06/04 15:05
-	22	(sand with metal with (casting castings)) and distributor	USPAT	2003/06/04 15:06
-	1811	debond debonding	USPAT	2003/06/04 15:06
-	0	distributor same (debond debonding)	USPAT	2003/06/04 15:07
-	2	(sand with metal with (casting castings)) same (debond debonding)	USPAT	2003/06/04 15:07
-	6425	sand with metal	USPAT	2003/06/04 15:07

-	3	(debond debonding) with (sand with metal )	USPAT	2003/06/04 15:07
-	14	4512821.URPN.	USPAT	2003/06/04 15:09
-	7373	reclaim reclaiming	USPAT	2003/06/04 15:53
-	165	sand near3 (reclaim reclaiming)	USPAT	2003/06/04 15:11
-	40255	fluidize fluidized fluidizing	USPAT	2003/06/04 15:11
-	5	distributor and ((sand near3 (reclaim reclaiming)) and (fluidize fluidized fluidizing))	USPAT	2003/06/04 15:11
-	72	(sand near3 (reclaim reclaiming)) and (fluidize fluidized fluidizing)	USPAT	2003/06/04 15:22
-	5	("3399637"   "3772999"   "3907674"   "4427375"   "4434726").PN.	USPAT	2003/06/04 15:33
-	9	5271450.URPN.	USPAT	2003/06/04 15:33
-	1076311	metal	USPAT	2003/06/04 15:45
-	554267	treatment treatments	USPAT	2003/06/04 15:45
-	44423	metal with (treatment treatments)	USPAT	2003/06/04 15:45
-	104	(fluidize fluidized fluidizing) with (metal with (treatment treatments))	USPAT	2003/06/04 15:46
-	2	(reclaim reclaiming) and ((fluidize fluidized fluidizing) with (metal with (treatment treatments)))	USPAT	2003/06/04 15:51
-	443987	aluminum	USPAT	2003/06/04 15:51
-	0	US-2798030-A.DID. and aluminum	USPAT	2003/06/04 15:52
-	3364	sand with aluminum	USPAT	2003/06/04 15:52
-	7423	reclaim reclaiming reclamation	USPAT	2003/06/04 15:53
-	8	(sand with aluminum) same (reclaim reclaiming reclamation)	USPAT	2003/06/04 16:01
-	1	("4752061").PN.	USPAT	2003/06/04 15:55
-	0	5202080.URPN.	USPAT	2003/06/04 15:56
-	1	"4563151".PN.	USPAT	2003/06/04 15:56
-	6	5332139.URPN.	USPAT	2003/06/04 15:56
-	64	(sand with aluminum) same (fluidize fluidized fluidizing)	USPAT	2003/06/04 16:04
-	1	("3053704").PN.	USPAT	2003/06/04 16:05
-	27	3053704.URPN.	USPAT	2003/06/04 16:06
-	9	5271450.URPN.	USPAT	2003/06/04 16:32
-	5	("3399637"   "3772999"   "3907674"   "4427375"   "4434726").PN.	USPAT	2003/06/04 16:33
-	4	US-5908804-\$.DID. OR US-3763830-\$.DID. US-3053704-\$.DID. US-4443551-\$.DID.	USPAT	2003/11/19 16:00
-	120241	door	USPAT	2003/11/19 16:00
-	0	(US-5908804-\$.DID. OR US-3763830-\$.DID. US-3053704-\$.DID. US-4443551-\$.DID.) and door	USPAT	2003/11/19 16:04
-	699099	cover	USPAT	2003/11/19 16:04
-	0	cover and (US-5908804-\$.DID. OR US-3763830-\$.DID. US-3053704-\$.DID. US-4443551-\$.DID.)	USPAT	2003/11/19 16:04

-	26976	fluidized adj bed	USPAT	2003/11/19 16:49
-	233456	catalyst	USPAT	2003/11/19 16:05
-	0	(door same (fluidized adj bed)) same catalyst	USPAT	2003/11/19 16:05
-	67	door same (fluidized adj bed)	USPAT	2003/11/19 16:08
-	206208	tuyere tuyeres nozzle nozzles	USPAT	2003/11/19 16:09
-	580400	piping pipes distribution distributor distributor	USPAT	2003/11/19 16:09
-	9894	(tuyere tuyeres nozzle nozzles) near4 (piping pipes distribution distributor distributor)	USPAT	2003/11/19 16:09
-	1971261	below beneath perpendicular perpendicularly	USPAT	2003/11/19 16:25
-	496	((tuyere tuyeres nozzle nozzles) near4 (piping pipes distribution distributor distributor)) with (below beneath perpendicular perpendicularly)	USPAT	2003/11/19 16:10
-	57	(fluidized adj bed) and (((tuyere tuyeres nozzle nozzles) near4 (piping pipes distribution distributor distributor)) with (below beneath perpendicular perpendicularly))	USPAT	2003/11/19 16:10
-	0	door and ((fluidized adj bed) and (((tuyere tuyeres nozzle nozzles) near4 (piping pipes distribution distributor distributor)) with (below beneath perpendicular perpendicularly)))	USPAT	2003/11/19 16:10
-	12	cover and ((fluidized adj bed) and (((tuyere tuyeres nozzle nozzles) near4 (piping pipes distribution distributor distributor)) with (below beneath perpendicular perpendicularly)))	USPAT	2003/11/19 16:10
-	10	("2608474"   "3466021"   "3647714"   "3680349"   "3890111"   "3927479"   "3974091"   "4051069"   "4223843"   "4322384").PN.	USPAT	2003/11/19 16:11
-	24	4443551.URPN.	USPAT	2003/11/19 16:20
-	564141	perpendicular perpendicularly "90 degrees"	USPAT	2003/11/19 16:26
-	3137	(tuyere tuyeres nozzle nozzles) near3 (perpendicular perpendicularly "90 degrees")	USPAT	2003/11/19 16:26
-	5715	"metal casting" "metal castings"	USPAT	2003/11/19 16:26
-	0	((fluidized adj bed) and ((tuyere tuyeres nozzle nozzles) near3 (perpendicular perpendicularly "90 degrees"))) and ("metal casting" "metal castings")	USPAT	2003/11/19 16:26
-	60	(fluidized adj bed) and ((tuyere tuyeres nozzle nozzles) near3 (perpendicular perpendicularly "90 degrees"))	USPAT	2003/11/19 16:30
-	1	("6253830").PN.	USPAT	2003/11/19 16:31
-	3	("5294094"   "5332139"   "5423370").PN.	USPAT	2003/11/19 16:30
-	0	6253830.URPN.	USPAT	2003/11/19 16:31
-	918628	air	USPAT	2003/11/19 16:31
-	469117	distributor distribution	USPAT	2003/11/19 16:31
-	12275	air near2 (distributor distribution)	USPAT	2003/11/19 16:32
-	846	(fluidized adj bed) and (air near2 (distributor distribution))	USPAT	2003/11/19 16:32

-	988	(tuyere tuyeres nozzle nozzles) with (air near2 (distributor distribution))	USPAT	2003/11/19 16:32
-	0	((perpendicular perpendicularly "90 degrees") with ((tuyere tuyeres nozzle nozzles) with (air near2 (distributor distribution)))) and (fluidized adj bed)	USPAT	2003/11/19 16:32
-	11	(perpendicular perpendicularly "90 degrees") with ((tuyere tuyeres nozzle nozzles) with (air near2 (distributor distribution))))	USPAT	2003/11/19 16:33
-	1	("metal casting" "metal castings") and ((tuyere tuyeres nozzle nozzles) with (air near2 (distributor distribution))))	USPAT	2003/11/19 16:34
-	6	("metal casting" "metal castings") and ((fluidized adj bed) and (air near2 (distributor distribution))))	USPAT	2003/11/19 16:35
-	8895	(tuyere tuyeres nozzle nozzles) with (perpendicular perpendicularly "90 degrees")	USPAT	2003/11/19 16:35
-	15	((fluidized adj bed) and (air near2 (distributor distribution))) and ((tuyere tuyeres nozzle nozzles) with (perpendicular perpendicularly "90 degrees"))	USPAT	2003/11/19 16:41
-	1	("5271450").PN.	USPAT	2003/11/19 16:47
-	5	("3399637"   "3772999"   "3907674"   "4427375"   "4434726").PN.	USPAT	2003/11/19 16:41
-	10	5271450.URPN.	USPAT	2003/11/19 16:44
-	11	("4226830"   "4645452"   "4693682"   "4841884"   "5006062"   "5020451"   "5063028"   "5093085"   "5138958"   "5239945"   "5271450").PN.	USPAT	2003/11/19 16:46
-	1	5452669.URPN.	USPAT	2003/11/19 16:47
-	296966	array	USPAT	2003/11/19 16:48
-	2408838	below beneath under	USPAT	2003/11/19 16:48
-	19437	(tuyere tuyeres nozzle nozzles) near3 (below beneath under)	USPAT	2003/11/19 16:48
-	276	(distributor distribution) with ((tuyere tuyeres nozzle nozzles) near3 (below beneath under))	USPAT	2003/11/19 16:48
-	37875	fluidized	USPAT	2003/11/19 16:49
-	27	((distributor distribution) with ((tuyere tuyeres nozzle nozzles) near3 (below beneath under))) and fluidized	USPAT	2003/11/19 16:50
-	89907	sand	USPAT	2003/11/19 16:50
-	11419	sand and (tuyere tuyeres nozzle nozzles)	USPAT	2003/11/19 16:50
-	57933	air with (tuyere tuyeres nozzle nozzles)	USPAT	2003/11/19 16:50
-	3088	sand and (air with (tuyere tuyeres nozzle nozzles))	USPAT	2003/11/19 16:51
-	94	reclamation	USPAT	2003/11/19 16:51
-	0	(sand and (air with (tuyere tuyeres nozzle nozzles))) and reclamation	USPAT	2003/11/19 16:51
-	580	fluidized and (sand and (air with (tuyere tuyeres nozzle nozzles)))	USPAT	2003/11/19 16:51
-	32	door and (fluidized and (sand and (air with (tuyere tuyeres nozzle nozzles))))	USPAT	2003/11/19 16:58
-	10192	FCC	USPAT	2003/11/19 16:58
-	120241	door	USPAT	2003/11/19 16:58

-	436	FCC and door	USPAT	2003/11/19 16:58
-	233456	catalyst	USPAT	2003/11/19 16:58
-	71	door with catalyst	USPAT	2003/11/19 16:58
-	2	FCC and (door with catalyst)	USPAT	2003/11/19 16:58
-	10192	FCC	USPAT	2003/11/20 11:26
-	120241	door	USPAT	2003/11/20 11:27
-	562008	service servicing clean cleaning	USPAT	2003/11/20 11:27
-	6199	door with (service servicing clean cleaning)	USPAT	2003/11/20 11:07
-	18	FCC and (door with (service servicing clean cleaning))	USPAT	2003/11/20 11:17
-	76757	cracking	USPAT	2003/11/20 11:17
-	126	(door with (service servicing clean cleaning)) and cracking	USPAT	2003/11/20 11:17
-	40783	fluidized fluidize fluidise fluidised	USPAT	2003/11/20 15:47
-	8	((door with (service servicing clean cleaning)) and cracking) and (fluidized fluidize fluidise fluidised)	USPAT	2003/11/20 11:19
-	27	FCC with door	USPAT	2003/11/20 11:20
-	1498006	cover closure opening window	USPAT	2003/11/20 11:20
-	38323	(service servicing clean cleaning) with (cover closure opening window)	USPAT	2003/11/20 11:21
-	178361	reactor regenerator regeneration	USPAT	2003/11/20 11:21
-	1287	FCC with (reactor regenerator regeneration)	USPAT	2003/11/20 11:21
-	7	((service servicing clean cleaning) with (cover closure opening window)) and (FCC with (reactor regenerator regeneration))	USPAT	2003/11/20 15:56
-	1	(fluidized fluidize fluidise fluidised) with (door with (service servicing clean cleaning))	USPAT	2003/11/20 11:25
-	12	(fluidized fluidize fluidise fluidised) same (door with (service servicing clean cleaning))	USPAT	2003/11/20 11:25
-	1074	FCC	USOCR	2003/11/20 11:28
-	109596	door	USOCR	2003/11/20 11:28
-	305570	service servicing clean cleaning	USOCR	2003/11/20 11:28
-	5067	door with (service servicing clean cleaning)	USOCR	2003/11/20 11:27
-	2	FCC same (door with (service servicing clean cleaning))	USOCR	2003/11/20 11:27
-	11339	fluidized fluidize fluidise fluidised	USOCR	2003/11/20 11:28
-	5	(fluidized fluidize fluidise fluidised) same (door with (service servicing clean cleaning))	USOCR	2003/11/20 11:27
-	471	FCC	EPO; JPO	2003/11/20 11:28
-	15312	fluidized fluidize fluidise fluidised	EPO; JPO	2003/11/20 11:28
-	87269	door	EPO; JPO	2003/11/20 11:28
-	227824	service servicing clean cleaning	EPO; JPO	2003/11/20 11:28

-	1	(door with (service servicing clean cleaning)) same (FCC or (fluidized fluidize fluidise fluidised))	EPO; JPO	2003/11/20 11:29
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